		ASSEMBLY NO:			DATE:	03-02-21				
		ASSEMBLY NAME:	HEC2 Receiver		PREPARED BY:	David Flory				
		REVISION:			VERIFIED BY:	Franci Franulovic				
		SOLDER TYPE:	Lead-Free							
ITEM	QTY	REFERENCE	DESCRIPTION	MFG	MFG P/N	VENDOR	VENDOR P/N	Datasheet URL	NOTES	Unit Price
		112.12.132	Multilayer Ceramic Capacitors MLCC - SMD/SMT		0 1 // 1	72.120.1	72.130.11.11	Datasileet ORL		0
			Multilayer Ceramic Capacitors MLCC - SMD/SMT					https://www.mouser.com/datasheet/2/447/UPY-		
1	4	C1, C3, C5, C7	1.0uF 10V X7R 10%	Yageo	CC0805KKX7R6BB105	Mouser	603-CC805KKX7R6BB105	GPHC X7R 6.3V-to-50V 18-1154002.pdf		\$0.25
			Multilayer Ceramic Capacitors MLCC - SMD/SMT							
		C2, C4, C6, C17, C21, C27, C30, C33,	Multilayer Ceramic Capacitors MLCC - SMD/SMT					https://www.mouser.com/datasheet/2/212/KEM_C1002_X7R_S	6	
2	14	C34, C35, C36, C37, C38, C39	50V 0.1uF X7R 0805 10%	KEMET	C0805C104K5RACTU	Mouser	80-C0805C104K5R	MD-1102033.pdf		\$0.13
			Multilayer Ceramic Capacitors MLCC - SMD/SMT					https://www.assassassassassassassassassassassassass		
2		C8, C9	Multilayer Ceramic Capacitors MLCC - SMD/SMT 50V 39pF C0G 0805 5%	KEMET	C0805C390J5GACTU	Mouser	80-C0805C390J5G	https://www.mouser.com/datasheet/2/212/KEM_C1003_C0G_S MD-1101588.pdf		\$0.2
3		. 66, 69	Multilayer Ceramic Capacitors MLCC - SMD/SMT	KLIVILI	C0803C330J3GAC10	iviousei	80-00803033030	[WD-1101388.pul		Ş0.2·
			Multilayer Ceramic Capacitors MLCC - SMD/SMT					https://www.mouser.com/datasheet/2/212/KEM_C1003_COG_S	5	
4	2	C10, C11	50V 12pF C0G 0805 5%	KEMET	C0805C120J5GACTU	Mouser	80-C0805C120J5G	MD-1101588.pdf		\$0.1
			Multilayer Ceramic Capacitors MLCC - SMD/SMT							
			Multilayer Ceramic Capacitors MLCC - SMD/SMT					https://www.mouser.com/datasheet/2/212/KEM_C1007_X8R_		
5	1	C12	50V 2200pF X8R 0805 5%	KEMET	C0805C222J5HACTU	Mouser	80-C0805C222J5H	ULTRA_150C_SMD-1102703.pdf		\$0.6
			Multilayer Ceramic Capacitors MLCC - SMD/SMT Multilayer Ceramic Capacitors MLCC - SMD/SMT					https://www.mouser.com/datasheet/2/447/UPY-		
6	١ ،	C13	470nF 16V X7R 10%	Yageo	CC0805KKX7R7BB474	Mouser	603-CC805KKX7R7BB474	GPHC_X7R_6.3V-to-50V_18-1154002.pdf		\$0.2
	· ·		Multilayer Ceramic Capacitors MLCC - SMD/SMT	.0500	CCC005KKX/11/BB4/4		000 CC000KKK/1K/DD4/4	0.110_X11_0.54 to 504_10 1154002.pdi		30.2
			Multilayer Ceramic Capacitors MLCC - SMD/SMT					https://www.mouser.com/datasheet/2/447/UPY-		
7	1	C14	1.0uF 10V X7R 10%	Yageo	CC0805KKX7R6BB105	Mouser	603-CC805KKX7R6BB105	GPHC_X7R_6.3V-to-50V_18-1154002.pdf		\$0.2
			Multilayer Ceramic Capacitors MLCC - SMD/SMT							
			Multilayer Ceramic Capacitors MLCC - SMD/SMT					https://www.mouser.com/datasheet/2/212/KEM_C1006_X5R_S	5	
8	2	C15, C18	10volts 10uF X5R 10%	KEMET	C0805C106K8PACTU	Mouser	80-C0805C106K8P	MD-1103249.pdf		\$0.1
			Multilayer Ceramic Capacitors MLCC - SMD/SMT Multilayer Ceramic Capacitors MLCC - SMD/SMT					https://www.mouser.com/datasheet/2/212/KEM_C1002_X7R_S	,	
9	١ ,	C16	50V 0.1uF X7R 0805 10%	KEMET	C0805C104K5RACTU	Mouser	80-C0805C104K5R	MD-1102033.pdf	'l	\$0.24
		. 610	Multilayer Ceramic Capacitors MLCC - SMD/SMT	REIVIET	COODSCIO MONONCIO	Widuser	CO COCOSCIO INSI	1102000.001		70.2
			Multilayer Ceramic Capacitors MLCC - SMD/SMT					https://www.mouser.com/datasheet/2/212/KEM_C1003_COG_S	5	
10	1	C19	50V 0.022uF C0G 0805 5%	KEMET	C0805C223J5GACTU	Mouser	80-C0805C223J5G	MD-1101588.pdf		\$0.76
			Tantalum Capacitors - Solid SMD Tantalum							
		535	Capacitors - Solid SMD 50V 10uf 2917 10%	WELLET	T404B405W0504T		00 740404050050	https://www.mouser.com/datasheet/2/212/1/KEM_T2005_T49		44.0
11	,	. C20	ESR=800mOhms Multilayer Ceramic Capacitors MLCC - SMD/SMT	KEMET	T491D106K050AT	Mouser	80-T491D106K050	1-1093550.pdf		\$1.8
			Multilayer Ceramic Capacitors MLCC - SMD/SMT					https://www.mouser.com/datasheet/2/281/1/GRM31A7U3A22		
12	1	. C25	22pF 1KVolts 5%	Murata	GRM31A7U3A220JW31D	Mouser	81-GRM31A7U3A220JW1D			\$0.4
			Multilayer Ceramic Capacitors MLCC - SMD/SMT					-		
			Multilayer Ceramic Capacitors MLCC - SMD/SMT					https://www.mouser.com/datasheet/2/427/vjcommercialseries	-	
13	1	. C26	100pF 1KV COG 5%	Vishay	VJ1812A101JXGAT	Mouser	77-VJ1812A101JXGAT	1764145.pdf		\$0.7
			Multilayer Ceramic Capacitors MLCC - SMD/SMT Multilayer Ceramic Capacitors MLCC - SMD/SMT					https://product.tdk.com/info/en/catalog/datasheets/mlcc_com		
14	4	C28, C31, C50, C51	1206 50V 10uF X5R 10% T: 1.6mm	TDK	C3216X5R1H106K160AB	Mouser	810-C3216X5R1H106K	mercial_general_en.pdf?ref_disty=mouser		\$0.8
										75.5
			Multilayer Ceramic Capacitors MLCC - SMD/SMT							
			Multilayer Ceramic Capacitors MLCC - SMD/SMT					https://product.tdk.com/info/en/catalog/datasheets/mlcc_com		
15	2	C29, C32	1206 25VDC 47uF 20% X5R 1.6mm	TDK	C3216X5R1E476M160AC	Mouser	810-C3216X5R1E476M	mercial_general_en.pdf?ref_disty=mouser		\$1.0
			Multilayer Ceramic Capacitors MLCC - SMD/SMT Multilayer Ceramic Capacitors MLCC - SMD/SMT					https://www.mouser.com/datasheet/2/281/1/GRM32EC72A106		
16	1	C40	100Vdc 10uF 10% 1210/2502	Murata	GRM32EC72A106KE05L	Mouser	81-GRM32EC72A106KE05	KE05 01A-1988109.pdf	1	\$1.3
10			Multilayer Ceramic Capacitors MLCC - SMD/SMT							71.0
			Multilayer Ceramic Capacitors MLCC - SMD/SMT					https://www.mouser.com/datasheet/2/427/vjhvarcguard-		
17	1	C42	0805 10pF 1KV C0G 5%	Vishay	VJ0805A100JXGAT5Z	Mouser	77-VJ0805A100JXGAT5Z	1763127.pdf	1	\$0.6
		l	Trimmer / Variable Capacitors Trimmer / Variable							1 .
18	1	C44	Capacitors TRIMMER CAPACITOR	Vishay	BFC280832659	Mouser	594-2222-808-32659	https://www.vishay.com/doc?28528	1	\$7.2
			Multilayer Ceramic Capacitors MLCC - SMD/SMT					https://www.mouser.com/datasheet/2/212/1/KEM_C1013_X7R		
19	١ ,	C46	Multilayer Ceramic Capacitors MLCC - SMD/SMT 50V 4.7uF X7R 1210 10%	KEMET	C1210X475K5RACTU	Mouser	80-C1210X475K5R	https://www.mouser.com/datasneet/2/212/1/KEM_C1013_X/K FT_CAP_SMD-1103280.pdf	1	\$1.8
13			Multilayer Ceramic Capacitors MLCC - SMD/SMT	NCINE!	CILIONAT SIGNACTO		55 51210/475/(5)/(Ş1.6.
			Multilayer Ceramic Capacitors MLCC - SMD/SMT					https://www.mouser.com/datasheet/2/40/C0GNP0_Dielectric-		
20	1	C47	16V .01uF C0G 0805 5%	AVX	0805YA103JAT2A	Mouser	581-0805YA103J	951274.pdf		\$0.9

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Additional Committee Commi									
Montage Coronic Capations (MCC 1900)DET March Montage March	22	1 C52	16V 1uF X7R 0805 10%	KEMET	C0805C105K4RACTU	Mouser	80-C0805C105K4R	MD-1102033.pdf	\$0.1
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B 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,									
20	23	1 C54	100V 10uF X7R 2220 20% Tol HIGH CV	AVX	22201C106MAT2A	Mouser	581-22201C106MAT2A	777024.pdf	\$1.8
1			Standard LEDs - SMD Standard LEDs - SMD Red					https://www.mouser.com/datasheet/2/678/av02-0551en-ds-	
20 20 20 20 20 20 20 20	24	8 D1, D2, D5, D6, D7, D8, D9, D10	Diffused 626nm 10mcd	Broadcom Limited	HSMS-C150	Mouser	630-HSMS-C150	hsmx-cxxx-05mar2012-1827675.pdf	\$0.4
20 20 20 20 20 20 20 20									
Column			ESD Suppressors / TVS Diodes ESD Suppressors /					https://www.mouser.com/datasheet/2/115/DESD3V3S1BL-	
20 15 15 15 15 15 15 15 1	25	5 D3, D11, D12, D17, D18	TVS Diodes Low Cap Bi TVS 10pF 3.3V 3.8Vbr 25kV	Diodes Incorporated	DESD3V3S1BL-7B	Mouser	621-DESD3V3S1BL-7B	321080.pdf	\$0.2
25 S. O. (11.5) (2.10) (15.5) (15									
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20 20 20 20 20 20 20 20								https://www.mouser.com/datasheet/2/389/stps140-	
22 22 12 22 23 24 24 24 24 24 2	27	2 D19, D20		STMicroelectronics	STPS140A	Mouser	511-STPS140A		\$0.4
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B D28		D21, D22, D23, D24. D25. D26. D27.	Schottky Diodes & Rectifiers Schottky Diodes &						
	28			Infineon	IDH04SG60CXKSA2	Mouser	726-IDH04SG60CXKSA2		\$2.6
29 2 F1, F2									
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30 2 11, 13 S.OMM PCB MOUNT 29 TC Connectivity 22838-2 Mouser \$71-2828362 PartCrist-2828362 PartCrist-2828			Fixed Terminal Placks Fixed Terminal Placks						
31 2 2, 24	20	2 11 12		TE Connectivity	202026 2	Mousor	E71 2020262		\$0.8
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32 3 P.P. P.P. P. P. Housing SP VERT HEADERS N Wire Housing Headers & Wire Housing Headers & Wire Housing Headers & Wire Housing W. Php 2.54mm M. Fig. Ph. Data Str. 1 Mouse 710-61000621121 1777952-pdf https://www.mouser.com/datasheet/7/445/61000621121-1777952-pdf https://www.mouser.com/datasheet/7/45/61000621121-1777952-pdf https://www.mouser.com/datasheet/7/45/61000621121-1777952-pdf https://www.mouser.com/datasheet/7/45/61000621121-1777952-pdf https://www.mouser.com/datasheet/7/45/61000621121-1777952-pdf https://www.mouser.com/datasheet/7/45/61000621121-1777952-pdf https://www.mouser.com/datasheet/7/45/61000621121-1777952-pdf https://www.mouser.com/datasheet/7/45/7471005-7/407797-7/407797-7/40779-7/4079-7	31	2 32, 34	Handors & Wire Housings Handors & Wire			iviouser		https://www.mausar.com/datashaat/2/276/0022284020_BCB	
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38 2 PA, IPS	32	3 JP1, P2, P4	Housings 3P VERT HEADER Sn	Molex	22-28-4030	Mouser	538-22-28-4030	HEADERS-228162.pdf	\$0.1
38 2 PA, IPS								,,	
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34	33	2 JP4, JP5		Wurth Elektronik	61000621121	Mouser	710-61000621121	1717892.pdf	\$0.9
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35 2 2,13	34	1 11		Coilcraft	XAL6060-682MEB	Mouser	994-XAL6060-682MEB	https://www.mouser.com/datasheet/2/597/xal60xx-270658.pdf	\$2.5
Fixed Inductors WE-50 Rod Core Wurth Elektronik 744711005 Mouser 710-744711005 1722087.pdf 1515 1004151.51.m0hm Wurth Elektronik 744711005 Mouser 710-744711005 1722087.pdf 151272087.pdf 1515 100411.71.51.0MHz Wurth Elektronik 744912210 Mouser 710-744912210 17273315.pdf 151273315.pdf 1512									
36 1 14 100H 5A 15.1mOhm Wurth Elektronik 74471005 Mouse 710-744711005 172297.pdf 1152/297.pdf 1152/297.pdf 1152/297.pdf 1152/245/74912210 100H 1.7A 150MHz 100	35	2 L2, L3		Bourns	MH3261-601Y	Mouser	652-MH3261-601Y		\$0.1
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1 15 100nH 1.7A 150MHz Wurth Elektronik 74912210 Mouser 710-744912210 1723335.pdf 172335.pdf 1723335.pdf 172335.pdf 1723335.pdf 1723335.pdf 172335.pdf 1723335.pdf 172335.pdf 1723335.pdf 172335.pdf 1723335.pdf 17233	36	1 L4		Wurth Elektronik	744711005	Mouser	710-744711005		\$1.8
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Section Sect	37	1 L5	100nH 1.7A 150MHz	Wurth Elektronik	744912210	Mouser	710-744912210		\$1.1
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1 MD1 Shielded, Antenna, ASCII Interface, 12x22mm Microchip RN4870-I/RM140 Mouser S79-RN4870-I/RM140 Bluetooth-low-Energy-Module-Data-Sheet-2/268/RN4870-71- Bluetooth-low-Energy-Module-Data-Sheet-0-1658564.pdf	38	1 L8	2.1A 245mOhms AECQ2	Coilcraft	MSS1210-224KEB	Mouser	994-MSS1210-224KEB	270677.pdf	\$2.2
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1 P1 Housings WR-PHD 2.54mm Hdr 5P Single Str Gold Wurth Elektronik 61300511121 Mouser 710-61300511121 1717845.pdf	39	1 MD1	Shielded, Antenna, ASCII Interface, 12x22mm	Microchip	RN4870-I/RM140	Mouser	579-RN4870-I/RM140	Bluetooth-Low-Energy-Module-Data-Sheet-D-1658564.pdf	\$7.3
1 P1									
1 P1			Headers & Wire Housings Headers & Wire	1				https://www.mouser.com/datasheet/2/445/61300511121-	
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1 P3									
1 P3			Headers & Wire Housings Headers & Wire					https://www.mouser.com/datasheet/2/445/62201421121-	
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43 1 P6 Housings 02 SIL VERTICAL PIN HEADER TIN Harwin M20-9990246 Mouser 855-M20-9990246 1218971.pdf Headers & Wire Housings Headers & Wire Housings We-PHD 2.54mm SMT 6P Hdr Dual Strt Wurth Elektronik 61000621121 Mouser 710-61000621121 1717892.pdf Headers & Wire Housings Headers & Wire Housings Headers & Wire Housings 100" Surface Mount Terminal Strip Samtec TSM-104-01-L-SV-P-TR Mouser 200-TSM10401LSVPTR https://www.mouser.com/datasheet/2/527/tsm-1344849.pdf MOSFET MOSFET PT8 40V/20V LL NCh https://www.mouser.com/datasheet/2/308/FDMC8327L-D-POWETTENCH MOSFET ON Semiconductor FDMC8327L Mouser 512-FDMC8327L 1807402.pdf https://www.mouser.com/datasheet/2/447/PYu_RC_Group_51		-						· · · · · · · · · · · · · · · · · · ·	\$0.50
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45 1 P8 Housings .100" Surface Mount Terminal Strip Samtec TSM-104-01-L-SV-P-TR Mouser 200-TSM10401LSVPTR https://www.mouser.com/datasheet/2/527/tsm-1344849.pdf https://www.mouser.com/datasheet/2/527/tsm-1344849.pdf https://www.mouser.com/datasheet/2/308/FDMC8327L-D-466 2 Q1, Q2 PowerTrench MOSFET ON Semiconductor FDMC8327L Mouser 512-FDMC8327L 1807402.pdf https://www.mouser.com/datasheet/2/308/FDMC8327L-D-408-00-10-10-10-10-10-10-10-10-10-10-10-10-	44	2 17 1, 17 3	Thousings WN-PRD 2.34HIIII SWIT OF HOT DUAL SETT	vv ui tii Elektioilik	01000021121	iviousei	/10-01000021121	1/1/032.pui	\$0.9
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	47	8 K1, K7, R9, R10, R11, R12, R13, R14	ISMD 470 OHM 1%	Yageo	KCU805FR-07470RL	Mouser	1603-RC0805FR-07470RL	KOHS_L_1U-1664U68.pdf	\$0.1

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48	6 R2, R3, R4, R5, R22, R23	Thick Film Resistors - SMD Thick Film Resistors - SMD 10K OHM 1%	Yageo	RC0805FR-0710KL	Mouser	603-RC0805FR-0710KL	https://www.mouser.com/datasheet/2/447/PYu_RC_Group_51 _RoHS_L_10-1664068.pdf	\$0.1
40	0 112, 113, 114, 113, 1122, 1123	SWID TOK CITIVI 176	Tageo	RC08031 R-0710RL	iviousei	003-KC08031 K-07 10KL		30.1
	R6, R15, R18, R19, R24, R25, R26,	Thick Film Resistors - SMD Thick Film Resistors -						
49	8 R27	SMD 1/8watt 4.7Kohms 5% 200ppm	Vishay	CRCW08054K70JNTA	Mouser	71-CRCW0805J-4.7K	https://www.mouser.com/datasheet/2/427/dcrcw-1762150.pdf	\$0.1
		Thick Film Resistors - SMD Thick Film Resistors -	<i>'</i>				https://www.mouser.com/datasheet/2/427/dcrcwe3-	
50	1 R8	SMD 1/8watt 20ohms 1% 100ppm	Vishay	CRCW080520R0FKEA	Mouser	71-CRCW0805-20-E3	1762152.pdf	\$0.1
		Thick Film Resistors - SMD Thick Film Resistors -					https://www.mouser.com/datasheet/2/427/dcrcwe3-	
51	1 R17	SMD 1/8watt 30Kohms 1% 100ppm	Vishay	CRCW080530K0FKEA	Mouser	71-CRCW0805-30K-E3	1762152.pdf	\$0.1
		Thick Film Resistors - SMD Thick Film Resistors -					https://www.mouser.com/datasheet/2/447/PYu_RC_Group_51	
52	1 R20, R57	SMD 1K OHM 1%	Yageo	RC0805FR-071KL	Mouser	603-RC0805FR-071KL	_RoHS_L_10-1664068.pdf	\$0.1
		Thick Film Resistors - SMD Thick Film Resistors -						
53	1 R21	SMD 1/8watt 40.2ohms 1% 100ppm	Vishay	CRCW080540R2FKTA	Mouser	71-CRCW0805-40.2	https://www.mouser.com/datasheet/2/427/dcrcw-1762150.pdf	\$0.1
		Thick Film Resistors - SMD Thick Film Resistors -					https://www.mouser.com/datasheet/2/427/dcrcwe3-	
54	1 R28	SMD 1/8watt 63.4Kohms 1% 100ppm	Vishay	CRCW080563K4FKEA	Mouser	71-CRCW0805-63.4K-E3	1762152.pdf	\$0.1
		Thick Film Resistors - SMD Thick Film Resistors -					https://www.mouser.com/datasheet/2/427/dcrcwe3-	
55	3 R29, R30, R31	SMD 1/8watt 4.7Kohms 1%	Vishay	CRCW08054K70FKEA	Mouser	71-CRCW0805-4.7K-E3	1762152.pdf	\$0.3
		Thick Film Resistors - SMD Thick Film Resistors -					https://www.mouser.com/datasheet/2/447/PYu_RC_Group_51	
56	2 R32, R34	SMD 10K OHM 1%	Yageo	RC0805FR-0710KL	Mouser	603-RC0805FR-0710KL	_RoHS_L_10-1664068.pdf	\$0.1
	2 222 225	Thick Film Resistors - SMD Thick Film Resistors -	10.1	000140005400014154	l.,	74 0000000000000000000	https://www.mouser.com/datasheet/2/427/dcrcwe3-	40
57	2 R33, R36	SMD 1/8watt 10ohms 5% 200ppm	Vishay	CRCW080510R0JNEA	Mouser	71-CRCW080510R0JNEA	1762152.pdf	\$0.:
58	2 R35, R37	Thick Film Resistors - SMD Thick Film Resistors - SMD 100K OHM 1%	V	RC0805FR-07100KL	Mouser	CO2 DC000EED 07400VI	https://www.mouser.com/datasheet/2/447/PYu_RC_Group_51	\$0.1
58	2 K35, K37	Current Sense Resistors - SMD Current Sense	Yageo	RCU8U5FR-U71UUKL	Mouser	603-RC0805FR-07100KL	_RoHS_L_10-1664068.pdf	\$0
59	1 R38	Resistors - SMD 1/4watt .02ohms 1%	Vichou	WSL1206R0200FEA	Mouser	71-WSL1206R0200FEA	http://www.vishay.com/dos230272	\$0.8
39	1 1/29	Thick Film Resistors - SMD Thick Film Resistors -	Vishay	WSLIZUORUZUUFEA	Mousei	71-W3L1206R0200FEA	http://www.vishay.com/doc?30373	ŞU.
60	1 R39	SMD 1/4watt 158Kohms 1%	Vishay	CRCW1206158KFKEA	Mouser	71-CRCW1206-158K-E3	https://www.mouser.com/datasheet/2/427/dcrcwe3- 1762152.pdf	\$0.1
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		Thin Film Resistors - SMD Thin Film Resistors -					https://www.mouser.com/datasheet/2/427/mcx0x0xpre-	
61	1 R40	SMD 0.1W 10Kohms 0.1% 1206 25ppm Auto	Vishay	MCA12060D1002BP500	Mouser	594-MCA12060D1002BP5	1762843.pdf	\$0.
01	1 1140	Thick Film Resistors - SMD Thick Film Resistors -	Visitay	WICA12000D1002BI 300	Wiodaci	354 WICHIZO00B1002BI 5	1702043.pdi	, , , , , , , , , , , , , , , , , , ,
62	3 R41, R42, R46	SMD 0ohm Jumper	Bourns	CR1206-J/-000ELF	Mouser	652-CR1206-J/-000ELF	https://www.mouser.com/datasheet/2/54/crxxxxx-1858361.pdf	\$0.1
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63	6 R43, R44, R45, R47, R48, R49	SMD Oohm Jumper	Bourns	CR1206-J/-000ELF	Mouser	652-CR1206-J/-000ELF	https://www.mouser.com/datasheet/2/54/crxxxxx-1858361.pdf	\$0.1
		Thin Film Resistors - SMD Thin Film Resistors -					https://www.mouser.com/datasheet/2/447/PYu_RT_1_to_0_01	7
64	1 R50	SMD 1/8W 931K ohm .1% 25ppm	Yageo	RT0805BRD07931KL	Mouser	603-RT0805BRD07931KL	_RoHS_L_11-1669912.pdf	\$0.4
		Thin Film Resistors - SMD Thin Film Resistors -					https://www.mouser.com/datasheet/2/447/PYu_RT_1_to_0_01	
65	1 R51	SMD 1/8W 64.9K ohm .1% 25ppm	Yageo	RT0805BRD0764K9L	Mouser	603-RT0805BRD0764K9L		\$0.4
		Thick Film Resistors - SMD Thick Film Resistors -					https://www.mouser.com/datasheet/2/427/dcrcwe3-	
66	1 R52	SMD 1/8watt 1.1Mohms 1%	Vishay	CRCW08051M10FKEA	Mouser	71-CRCW08051M10FKEA	1762152.pdf	\$0.3
		Thick Film Resistors - SMD Thick Film Resistors -					https://www.mouser.com/datasheet/2/427/dcrcwe3-	
67	1 R53	SMD 1/8watt 75Kohms 1% 100ppm	Vishay	CRCW080575K0FKEA	Mouser	71-CRCW0805-75K-E3	1762152.pdf	\$0.3
		Thick Film Resistors - SMD Thick Film Resistors -					https://www.mouser.com/datasheet/2/427/dcrcwe3-	
68	1 R54	SMD 1/8watt 28Kohms 1% 100ppm	Vishay	CRCW080528K0FKEA	Mouser	71-CRCW0805-28K-E3	1762152.pdf	\$0.1
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		Thick Film Resistors - SMD Thick Film Resistors -					https://www.mouser.com/datasheet/2/315/AOA0000C304-	
69	1 R55	SMD 0805 2.94Kohms 1% AEC-Q200	Panasonic	ERJ-6ENF2941V	Mouser	667-ERJ-6ENF2941V	1149620.pdf	\$0.3
[.	Thin Film Resistors - SMD Thin Film Resistors -	L	L	l	L	https://www.mouser.com/datasheet/2/392/susumu_RR_Data_	
70	1 R56	SMD 1/10W 2Kohm 0.5% 25ppm	Susumu	RR1220P-202-D	Mouser	754-RR1220P-202D	Sheet-1206438.pdf	\$0.
		Current Sense Resistors - SMD Current Sense						
- l	2 054 052	Resistors - SMD 1206 0.010ohm 1% Curr Sense	D	EDI ODIMEDOTO:		CC7 ED1 00\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	https://www.mouser.com/datasheet/2/315/AOA0000C313-	4
71	2 RS1, RS2	AEC-Q200	Panasonic	ERJ-8BWFR010V	Mouser	667-ERJ-8BWFR010V	1141758.pdf	\$0.
72	E CIMIA CIMIA CIMIA CIMIA CIMIA	Tactile Switches Tactile Switches Top Actuated	Omron	D311 1000D	Mausor	GE2 D2LL 1000D	https://www.mausar.com/datashaat/3/207/on.h3u-264546	\$0.
12	6 SW1, SW2, SW3, SW4, SW5, SW6	W/o boss w/o ground	Omron	B3U-1000P	Mouser	653-B3U-1000P	https://www.mouser.com/datasheet/2/307/en-b3u-3615.pdf	\$0.
1	3 TP1, TP2, TP3	Circuit Board Hardware - PCB Circuit Board	Voustana Flasts:	F001	Mausor	E24 E001	https://www.mouser.com/datasheet/2/215/000-5004-	\$0.
72		Hardware - PCB TEST POINT BLACK Supervisory Circuits Supervisory Circuits Open	Keystone Electronics	5001	Mouser	534-5001	741181.pdf	\$0.
73			1	MCP111T-240E/TT	Mousor	579-MCP111T-240E/TT	https://www.mouser.com/datasheet/2/268/21889b-64653.pdf	\$0.
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74	1 U1	Drain 16-bit Microcontrollers - MCU 16-bit				EGE MCDA2GEDEGGAIDNA	https://www.ti.com/lit/ndf/claa722	¢0
		Drain	Microchip Texas Instruments	MSP430FR5994IPM	Mouser	595-MSP430FR5994IPM	https://www.ti.com/lit/pdf/slaa722	\$8.
74	1 U1	Drain 16-bit Microcontrollers - MCU 16-bit Microcontrollers - MCU				595-MSP430FR5994IPM	https://www.ti.com/lit/pdf/slaa722	\$8.
74	1 U1	Drain 16-bit Microcontrollers - MCU 16-bit Microcontrollers - MCU Translation - Voltage Levels Translation - Voltage	Texas Instruments	MSP430FR5994IPM	Mouser			\$8.
74	1 U1	Drain 16-bit Microcontrollers - MCU 16-bit Microcontrollers - MCU				595-MSP430FR5994IPM 595-TXB0104PWR	https://www.ti.com/lit/pdf/scea064	
74	1 U1	Drain 16-bit Microcontrollers - MCU 16-bit Microcontrollers - MCU Translation - Voltage Levels Translation - Voltage	Texas Instruments	MSP430FR5994IPM	Mouser			\$8.

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		Operational Amplifiers - Op Amps Operational						
78	1 U5	Amplifiers - Op Amps Single 1.8V 1MHz	Microchip	MCP6001T-I/OT	Mouser	579-MCP6001T-I/OT	https://www.mouser.com/datasheet/2/268/21733j-740845.pdf	\$0.24
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79	1 U6	Inductive Load	ON Semiconductor	NUD3112LT1G	Mouser	863-NUD3112LT1G	http://www.onsemi.com/pub/Collateral/AND8116-D.PDF	\$0.44
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80	1 U7	ICs Sngl 7B V I2C POT	Microchip	MCP4531-103E/MS	Mouser	579-MCP4531-103E/MS	36447.pdf	\$0.70
		Digital Isolators Digital Isolators Low-						
81	1 U8	Power,Bidirec I2C Iso	Texas Instruments	ISO1540DR	Mouser	595-ISO1540DR	https://www.ti.com/lit/pdf/slyt403a	\$4.51
		Battery Management Battery Management						
1		35V/3.2A Multi-Cell Lithium-Ion Step-Down						
		Battery Charger with PowerPath and I2C					https://www.mouser.com/datasheet/2/609/LTC4162_S-	
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1		& Power Monitors & Regulators VItg Out Hi-Sd						
83	1 U10	Msmnt Current Shunt Mntr	Texas Instruments	INA194AIDBVT	Mouser	595-INA194AIDBVT	https://www.ti.com/lit/pdf/sloa228	\$2.89
		Non-Isolated DC/DC Converters Non-Isolated						
84	1 U11	DC/DC Converters	Texas Instruments	LMZM23601V5SILT	Mouser	595-LMZM23601V5SILT	https://www.ti.com/lit/pdf/snva834	\$6.17
		Non-Isolated DC/DC Converters Non-Isolated						
85	1 U12	DC/DC Converters	Texas Instruments	LMZM23601V3SILT	Mouser	595-LMZM23601V3SILT	https://www.ti.com/lit/pdf/slpa015	\$6.17
							http://www.ti.com/general/docs/suppproductinfo.tsp?distId=26	
		LDO Voltage Regulators LDO Voltage Regulators					&gotoUrl=http%3A%2F%2Fwww.ti.com%2Flit%2Fgpn%2Ftps7a4	
86	1 U13	50mA,100Vin,Sgl Out put LDO Linear Reg	Texas Instruments	TPS7A4001DGNT	Mouser	595-TPS7A4001DGNT	001	\$2.81
		Switching Voltage Regulators Switching Voltage						
87	1 U14	Regulators	Texas Instruments	LM5161PWPR	Mouser	595-LM5161PWPR	https://www.ti.com/lit/pdf/snaa137a	\$4.21
		Film Capacitors Film Capacitors 100V .47uF 10%					https://www.mouser.com/datasheet/2/440/e_WIMA_MKS_2-	
88 3	C22, C23, C24	1E=4.5x9.5x7.2 PCM 5	WIMA	MKS2D034701E00KSSD	Mouser	505-MKS2.47/100/10	1139871.pdf	\$0.48
		Thick Film Resistors - SMD Thick Film Resistors -					https://www.mouser.com/datasheet/2/427/dcrcwe3-	
89 1	R16	SMD 1/8watt 47Kohms 1% 100ppm	Vishay	CRCW080547K0FKEA	Mouser	71-CRCW0805-47K-E3	1762152.pdf	\$0.10
90 1	X1	Crystals Crystals 8MHz 20pF	Fox	FOXSDLF/080-20	Mouser	559-FOXSD080-20-LF	https://www.mouser.com/datasheet/2/160/C4SD-1131563.pdf	\$0.27
l		Multilayer Ceramic Capacitors MLCC - SMD/SMT						
		Multilayer Ceramic Capacitors MLCC - SMD/SMT					https://www.mouser.com/datasheet/2/281/1/GRM31A5C3A10	
91 2	C41, C43	1206 100pF 1000volt C0G +/-5%	Murata	GRM31A5C3A101JW01D	Mouser	81-GRM31A5C3A101J01D	1JW01_01-1987513.pdf	\$0.52
1		Multilayer Ceramic Capacitors MLCC - SMD/SMT						
		Multilayer Ceramic Capacitors MLCC - SMD/SMT					https://www.mouser.com/datasheet/2/212/1/KEM_C1013_X7R	
92 1	C45	50V 0.01uF X7R 0805 10%	KEMET	C0805X103K5RAC7210	Mouser	80-C0805X103K5R7210	_FT_CAP_SMD-1103280.pdf	\$0.35
		Multilayer Ceramic Capacitors MLCC - SMD/SMT						
		Multilayer Ceramic Capacitors MLCC - SMD/SMT	1		1		https://www.mouser.com/datasheet/2/212/1/KEM_C1014_X7R	
93 1	C53	50V 0.033uF X7R 0805 10%	KEMET	C0805S333K5RACTU	Mouser	80-C0805S333K5R	_FE_CAP_SMD-1102761.pdf	\$0.41
		Multilayer Ceramic Capacitors MLCC - SMD/SMT						
		Multilayer Ceramic Capacitors MLCC - SMD/SMT	1				https://www.mouser.com/datasheet/2/212/KEM_C1003_C0G_S	
94	2 C55, C56	50V 100pF C0G 0805 5%	KEMET	C0805C101J5GACTU	Mouser	80-C0805C101J5G	MD-1101588.pdf	\$0.16
95	0 Y1	Crystals Crystals 32.768KHZ 10PPM 7PF -40C +85C	ABRACON	ABS07-166-32.768KHZ-T	Mouser	815-ABS0716632.768KT		\$0.66
							https://www.mouser.com/datasheet/2/122/ECX-34G-	
96	1 Alternate Y1	Crystals 32.768kHz 6pF -40C +85C	ECS	ECS327-6-34G-TR	Mouser	520327-6-34GT	1064121.pdf	\$0.74